

# Ameren

## 2002 Summer Reliability Review

### Presentation to the Illinois Commerce Commission

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### Expected Summer Peak Load & Resources

#### Forecasted 2002 Summer Peak Loads

	<u>Expected</u>	<u>"Worse Case"</u>
AmerenCips*	3028 MW	3228 MW
AmerenUE	600 MW	728 MW

AmerenCIPS (supplied by Ameren Energy Marketing) has a 29 % reserve margin and AmerenUE has a 17.5% reserve margin which should adequately cover the "worse-case" summer peak scenario.

\*AmerenCIPS load includes NITS and wholesale customers.

### New Generation in Ameren's Illinois Territory

#### ■ Under Construction

1097 MW for Summer 2002

#### ■ Active Requests for Generation Connections

542 MW for 2003

408 MW for 2004

0 MW for 2005

5170 MW for 2006

0 MW for 2007

### Ameren Transmission System

- 5120 circuit miles of transmission (138kV through 345 kV) and approximately 200 substations
- Ameren is currently interconnected to 27 control areas.  
(including: TVA, Entergy, SPP Region, AEP, Cinergy, CE, NSP, ALT, and MEC)
- Ameren's central geographic location allows power to be transferred in any

direction within the transmission network's capability.

## **Ameren Transmission Reach Expected Facility Loading at Summer Peak**

- All lines, substations and feeders are expected to be within applicable ratings for both the expected summer peak and "worse-case" summer peak scenarios.

## **Adequate Transmission Capability**

- Ameren does not anticipate that there are any transmission constraints on the Ameren System that would prohibit the adequate supply of ARES or RES customers located in the Ameren service territory.
- This does not suggest that all ARES or RES customers will always be able to switch from their presently designated resources to any other source due to the following:
  - Some transmission interfaces are already heavily subscribed
  - New generation can positively or negatively impact transmission loading in various areas

## **Illinois Transmission Upgrades 2002**

- Coffeen 345 kV Bus and Switch Upgrades
- New Holland 345kV Substation (IPP Connection)
- New Xenia 345 kV Substation (IPP Connection)
- Cahokia 138 kV Terminal Upgrades
- Paralleling of Page-Keokuk line with South Quincy-East Quincy 138 kV line
- Kinmundy-Bluff City 138 kV Line upgrade
- Replace Newton 345/138 kV Transformers
- W. Frankfort 230 kV & 138 kV Breaker and Switch replacements

## **Transmission Service Requests**

- **Transmission Reservation Requests**
  - Non-Discriminatory, First Come – First served basis
  - 31,000 MW-Months of Transmission reserved on the Ameren system for summer 2002 (June, July, August)
- **Generation Connection Requests**
  - 9 plants on line
  - 8 in engineering / construction phase
  - 13 under study or studied and proceeding
  - 43 studied but withdrawn by developer

## **Transmission Concerns**

More Transmission (Investment) is required for ARES, RES and Generator customers. Listed below are hindrances to the building of transmission:

- Planning Uncertainties
- Regulatory Uncertainty
- Siting Issues (Route selection, permit approvals)
- Resource Constraints (Capital & Labor)
- Equipment Lead Times
- Cost Recovery

## **Generation Issues**

- **Appropriate planning reserve margins**
  - Potential transmission constraints
  - Market price volatility
  - Natural gas or fuel availability/pricing
- **Maintain Balanced Portfolio (Base load, intermediate, peaking)**
  - Environmental concerns
  - Siting Issues
  - Transmission upgrades are frequently required
- **Power Procurement for utilities 2005 & beyond**
  - Process
  - Cost recovery

## **Suggestions to promote and maintain Illinois Reliability**

- **Encourage Investment in Transmission.** New Transmission is required to effectively get Generation to the load and foster a competitive environment.
- **Promote reliability in both the Transmission and Distribution sector through balanced use of new infrastructure, technologies and processes.**
- **Develop a balanced portfolio of generation.** (base load, intermediate and peaking)
- **Encourage effective siting of new generation to relieve transmission constraints.**
- **Encourage the development of a thriving wholesale and retail market.**